

Date: Fri, 2 Apr 93 04:30:04 PST
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #87
To: packet-radio

Packet-Radio Digest Fri, 2 Apr 93 Volume 93 : Issue 87

Today's Topics:

 AX.25
 Baycom modem mod
 Bit-Regenerator (3 msgs)
 I need G8BPQ 4.04
 MSD caveat...
 pmnos ver 1d (2 msgs)
Request: Modification instructions for Radio Shack HTX-202. (2 msgs)
RFD: rec.radio.amateur reorganization [discussion summary 3/31] (4 msgs)

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 1 Apr 1993 18:29:02 GMT
From: ucsd.edu!brian@network.UCSD.EDU
Subject: AX.25
To: packet-radio@ucsd.edu

tccline@hplvec.LVLD.HP.COM (Ted Cline) writes:
>I have uploaded the "AX.25 Amateur Packet-Radio Link-Layer Protocol,
>Version 2.0 October 1984" specification as ax25.doc in /hamradio/packet/
>on ucsd.edu . If you have problems getting the file, I'll be pleased to
>email it to you.

I've hesitated to put this file out for FTP in the past, as it's
incomplete. The introductory information (and the ARRL copyright
notice!) has been stripped off the front, and the state tables are
missing from the end. It's almost completely impossible to construct

or troubleshoot the protocol without the state tables.

Jon Bloom at the League has said it's ok to distribute the protocol specification as long as it's complete and retains the ARRL Copyright statement, so I'm going to remove the existing file - and hope that someone does provide the complete electronic version.

- Brian

Date: 1 Apr 1993 21:36:02 GMT
From: usc!zaphod.mps.ohio-state.edu!saimiri.primate.wisc.edu!zazen!
news.uwsuper.edu!hp.uwsuper.edu!pmcgilla@network.UCSD.EDU
Subject: Baycom modem mod
To: packet-radio@ucsd.edu

Hi,

Would it be possible to change the crystal freq and get a higher baud rate than the standard 1200 baud. I will be using these modems on a special application in the 155mhz band so incompatibility will not be a problem.

Any thoughts anyone?

--
Patrick L. McGillan
Computer Systems Specialist
University Of Wisconsin Ph: (715) 394-8191
Superior, Wisconsin pmcgilla@uwsuper.edu

Date: Thu, 1 Apr 1993 14:32:01 GMT
From: newsgate.watson.ibm.com!yktnews.watson.ibm.com!sernews!news@uunet.uu.net
Subject: Bit-Regenerator
To: packet-radio@ucsd.edu

Anyone know anything about Bit-Regenerators? I'd like to find a circuit to put into a TNC-2 to make it a Bit-Regenerator.

73's de Jack - kf5mg
AX25net - kf5mg@kf5mg.#dfw.tx.usa.na - (817) 962-4409
AMPRnet - kf5mg@kf5mg.ampr.org - 44.28.0.14
Internet - kf5mg@vnet.ibm.com
IBMipnet - kf5mg@jgrass.dfw.ibm.com - 9.19.193.105

Date: Thu, 01 Apr 93 14:47:37 GMT
From: newsgate.watson.ibm.com!yktnews.watson.ibm.com!watson!@uunet.uu.net
Subject: Bit-Regenerator
To: packet-radio@ucsd.edu

Anyone have a circuit to add to a TNC-2 to make it a bit-regenerator?
What firmware (EPROM) would I use to do that? Will a TheNet X1G
EPROM work? Thanks.

73's de Jack - kf5mg
AX25net - kf5mg@kf5mg.#dfw.tx.usa.na - (817) 962-4409
AMPRnet - kf5mg@kf5mg.ampr.org - 44.28.0.14
Internet - kf5mg@vnet.ibm.com
IBMipnet - kf5mg@jgrass.dfw.ibm.com - 9.19.193.105

Date: Thu, 1 Apr 1993 18:41:01 +0000
From: agate!doc.ic.ac.uk!pipex!demon!llondel.demon.co.uk!dave@ames.arpa
Subject: Bit-Regenerator
To: packet-radio@ucsd.edu

In article <1993Apr01.144737.5743@watson.ibm.com> kf5mg@VNET.IBM.COM writes:
> Anyone have a circuit to add to a TNC-2 to make it a bit-regenerator?
> What firmware (EPROM) would I use to do that? Will a TheNet X1G
> EPROM work? Thanks.

>
> 73's de Jack - kf5mg
> AX25net - kf5mg@kf5mg.#dfw.tx.usa.na - (817) 962-4409
> AMPRnet - kf5mg@kf5mg.ampr.org - 44.28.0.14
> Internet - kf5mg@vnet.ibm.com
> IBMipnet - kf5mg@jgrass.dfw.ibm.com - 9.19.193.105
>

At a guess, all you need to do is implement the TAPR DCD state machine,
remove the SIO chip, wire RXDA to TXDA and wire the DCD from the state machine
to the PTT line. By doing it this way, your TX will key up when the TNC
detects something like valid data on the input, and the RXD<>TXD link will
cause the TX to exactly reproduce what is being received on the input.

Another method is to put a KISS eprom in the TNC (G8BPQ s/w has a suitable
KISS-only rom image) and wire the RXD to TXD on the RS232 connector. This
will cause the TNC to receive a packet, send it out on the RS232, receive the
same packet on the RS232 and then TX it when the channel is clear.

Obviously the first method is only suitable for repeater-like operation,
because the RX and TX are simultaneous, and there is no checksum calculations
done. It does provide a means of avoiding the 'hidden station effect' because

if all the users TX on the repeater input freq and listen to the repeater output freq, it will hold off all other users (who see a 'busy' channel) when any one is transmitting. It isn't 100% though !

73.....Dave

```
*****
* G4WRW @ GB7WRW.#41.GBR.EU AX25      *
* dave@llondel.demon.co.uk Internet * < insert witty/daft comment here !> *
* g4wrv@g4wrv.ampr.org      Ampnet   *
*****
```

Date: 1 Apr 93 14:22:06 +1000
From: munnari.oz.au!newshost.anu.edu.au!sserve!hhcs.gov.au!hhcs.gov.au!
news@uunet.uu.net
Subject: I need G8BPQ 4.04
To: packet-radio@ucsd.edu

In article <1993Mar17.220623.25836@oz.plymouth.edu> Michael L. Anderson,
m_ander@oz.plymouth.edu writes:

> I'm looking for version 4.04 of G8BPQ, but can only find
> version 4.06. Anyone know where 4.04 is? Thanks in advance.

Why do you need v4.04? There is nothing 4..04 will do that 4.06 will
not!

Carl.
vk1kcm.

--

Carl Makin (VK1KCM)
Internet: makinc@hhcs.gov.au
Ampnet: vk1kcm@vk1kcm.act.aus.oc
"Life is something to do when you can't get to sleep."
- Fran Lebowitz

Date: Wed, 31 Mar 1993 22:30:51 GMT
From: usc!zaphod.mps.ohio-state.edu!uwm.edu!linac!att!mcdchg!laidbak!psinntp!
psinntp!wrlldlnk!usenet@network.UCSD.EDU
Subject: MSD caveat...
To: packet-radio@ucsd.edu

Just one caution about MSD -- in regard to the IRQ display, I have

found that it can be misleading. I have added an I/O board to my PC as COM3 at IRQ5, but MSD shows the COM3 IRQ as 4. This means that it is not actually determining the IRQ but rather is showing the non-standard standard value for the COM port, which it is detecting.

Otherwise it is a useful program.

-Seth

```
=====
Seth M. Dworken, KC3IL           Internet:      p00123@psilink.com
Fairless Hills, PA              Packet Radio:  kc3il@kb1bd.nj.usa.na
                                coming soon -> AMPR Net:  kc3il@kc3il.ampr.org
work: sethd@eng.dowjones.com     [44.80.8.49]
```

```
| -Internet to Packet gateway:  bbs@w2xo.pgh.pa.us
| - w/ first line of message:   sp kc3il@kb1bd.nj.usa.na
```

```
Packet to Internet gateway:  kc3il@w2xo.#wpa.pa.usa.na
```

```
=====
"It rainbow spiral around and around, it tremble and explode!"
=====
```

```
-----
Date: 1 Apr 93 16:37:57 GMT
From: news-mail-gateway@ucsd.edu
Subject: pmnos ver 1d
To: packet-radio@ucsd.edu
```

I recently downloaded pmnos version 1d from UCSD incoming directory but have been unable to unzip the file. PKUNZIP reports 'compression method unknown.'

How do I unzip this file? Any help would be appreciated. 73, Mark. aa2ma.

Mark Morgida
D/EECS, US Military Academy
West Point, NY 10996

Internet: dm8981@eecs1.eecs.usma.edu

```
-----
Date: 2 Apr 93 00:22:23 GMT
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!mstar!n8emr!gws@network.UCSD.EDU
Subject: pmnos ver 1d
To: packet-radio@ucsd.edu
```

In article <9304011637.AA24747@eecs1.eecs.usma.edu> dm8981@eecs1.EECS.USMA.EDU (Morgida Mark MAJ) writes:

>I recently downloaded pmnos version 1d from UCSD incoming directory
>but have been unable to unzip the file. PKUNZIP reports 'compression
>method unknown.'

You may find that you need to get the new zip/unzip pkz204g. People trying to save a bit here and there now have a new version of zip that can't zip in the old format (but will unzip it) and on top of that virus checkers report a virus on the .exe when there is none.

--

Gary W. Sanders gws@n8emr.cmhnet.org, 72277,1325
N8EMR @ N8JYV (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
HAM BBS 614-895-2553 (1200/2400/V.32/PEP) Voice: 614-895-2552 (eves/weekends)

Date: 1 Apr 93 17:05:00 GMT
From: noc.near.net!saturn.caps.maine.edu!maine.maine.edu!umasp@uunet.uu.net
Subject: Request: Modification instructions for Radio Shack HTX-202.
To: packet-radio@ucsd.edu

I am making this post for my nephew who doesn't have access to Netnews. He currently has a Radio Shack HTX-202, 2-meter radio and was looking to make modifications. If anyone has any instructions for modifying the frequency or other modification information regarding the HTX-202 it would be greatly appreciated. Information can be sent directly to me and I will forward to him. He has mail capability, but not much else.

Thank you,

George Newell
umasp@maine.maine.edu
umasp@maine.bitnet

Date: Fri, 2 Apr 1993 03:27:29 GMT
From: usc!zaphod.mps.ohio-state.edu!uwm.edu!linac!att!att-out!cbfsb!cbnewsb.cb.att.com!wa2ise@network.UCSD.EDU
Subject: Request: Modification instructions for Radio Shack HTX-202.
To: packet-radio@ucsd.edu

There are none.

Date: 1 Apr 93 08:12:09 GMT

From: pacbell.com!amdahl!amdahl!ikluft@network.UCSD.EDU

Subject: RFD: rec.radio.amateur reorganization [discussion summary 3/31]

To: packet-radio@ucsd.edu

Scanning through the discussion that has been posted on news.groups so far, there appears to be support for a reorganization of rec.radio.amateur. I've taken a tally, though I want to caution everyone that THESE ARE NOT VOTES because voting won't occur unless the discussion phase shows enough support to allow us to proceed to a vote.

Tally so far: 13 in favor, 7 opposed, 8 unclear or undecided

Several of the "in favor" messages included modifications to the RFD which may or may not be conditional. So this number represents 13 in favor of a split but not necessarily for the exact proposal in the RFD.

WHAT WE NEED TO DO NOW IS BRING TOGETHER THE SUGGESTIONS WE HAVE INTO A NEW PROPOSAL WHICH CAN BECOME THE "CALL FOR VOTES". IF YOU SUPPORT A SPLIT OF REC.RADIO.AMATEUR, YOU NEED TO REMEMBER THIS IS A DEMOCRATIC PROCESS - LET'S TRY TO MAKE A PROPOSAL THAT CAN PASS A VOTE ON THE NEWSGROUP AND WORK IN PRACTICE. That will mean that probably no one will get exactly what they want. We need to be patient with the fact that other people have input too.

Of the suggestions made for changes, I would like to handle these the same as we did on the rra-reorg mail list. A suggestion needs to appear more than once (by different people) and outnumber the opposing opinions in order to make it in.

Suggestions which more than one person suggested were as follows (opposition is unknown so these are still open for discussion):

- * r.r.a.products should be renamed r.r.a.equipment
 - this was a common theme among a few otherwise-dissimilar variations
 - * r.r.a.space should be created whether the r.r.a.tech option is chosen or not
- If there is no opposition, these will become part of the evolving proposal.

Other notes:

- * A common concern was that the mail lists will need to match the newsgroups in order for this to work.
- * The question of which is supported more between the main set of newsgroups and the r.r.a.tech option is just as unclear as it was in the rra-reorg mail list. More discussion is needed - we definitely need to resolve this.
- * a couple responses questioned the r.r.a.digital subhierarchy or whether the groups would be big enough to support a newsgroup of their own. Since this part of the proposal was brought up by r.r.a.packet users and unopposed by others from that group, more comments are needed, especially from r.r.a.packet.

Let the discussion continue... I'll try to put together a picture of what

looks like it can pass a vote as people say what they can support.

For reference - recap of RFD proposals

Summary of RFD proposed newsgroups (Option I)

(all groups unmoderated)

Newsgroup name -----	description -----
rec.radio.amateur.misc	all Ham radio topics not covered below i.e. video, stories, humor, new topics [no modification to existing newsgroup]
rec.radio.amateur.policy	regulations & policy issues [no modification to existing newsgroup]
rec.radio.amateur.digital.misc	packet radio & other digital modes [includes old rec.radio.amateur.packet]
rec.radio.amateur.digital.tcp-ip	TCP/IP via packet radio
rec.radio.amateur.operating	Operating procedures and questions: DX, CW, contests, propagation, repeaters
rec.radio.amateur.products	manufactured equipment, modifications
rec.radio.amateur.instruction	Ham radio instruction & examination
rec.radio.amateur.construction	homebrewing & experimentation
rec.radio.amateur.space	amateur radio in space: satelllites, earth-moon-earth (EME), shuttle, MIR
rec.radio.amateur.emerg-services	emergency services: RACES, ARES, NTS

Summary of RFD proposed newsgroups (Option II - "the .tech option")

(all groups unmoderated)

Newsgroup name -----	description -----
rec.radio.amateur.misc	all Ham radio topics not covered below i.e. video, stories, humor, new topics [no modification to existing newsgroup]
rec.radio.amateur.policy	regulations & policy issues [no modification to existing newsgroup]
rec.radio.amateur.digital.misc	packet radio & other digital modes [includes old rec.radio.amateur.packet]
rec.radio.amateur.digital.tcp-ip	TCP/IP via packet radio
rec.radio.amateur.operating	Operating procedures and questions: DX, CW, contests, propagation, repeaters
rec.radio.amateur.emerg-services	emergency services: RACES, ARES, NTS
rec.radio.amateur.tech	Technical discussions about Ham Radio: construction, satelllites, theory, examinations, video

Ian Klufft KD6EUI PP-ASEL Amdahl Corporation, Open Systems Development
iklufft@uts.amdahl.com Santa Clara, CA
[disclaimer: any opinions expressed are mine only - not those of my employer]

--

Ian Klufft KD6EUI PP-ASEL Amdahl Corporation, Open Systems Development
iklufft@uts.amdahl.com Santa Clara, CA
[disclaimer: any opinions expressed are mine only... not those of my employer]

Date: 1 Apr 93 13:55:27 CST
From: sdd.hp.com!zaphod.mps.ohio-state.edu!wupost!udel!bogus.sura.net!news-
feed-1.peachnet.edu!umn.edu!noc.msc.net!uc.msc.edu!raistlin!timbuk.cray.com!
hemlock.cray.com@saimiri.prima.wisc.edu
Subject: RFD: rec.radio.amateur reorganization [discussion summary 3/31]
To: packet-radio@ucsd.edu

In article <efB803hDceof00@amdahl.uts.amdahl.com>, iklufft@uts.amdahl.com (Ian Klufft) writes:

> [...]
> Tally so far: 13 in favor, 7 opposed, 8 unclear or undecided
> Several of the "in favor" messages included modifications to the RFD which may
> or may not be conditional. So this number represents 13 in favor of a split
> but not necessarily for the exact proposal in the RFD.

So, what you're saying is that a grand total of 28 people have expressed an opinion and less than half of those were obviously for it ?

> WHAT WE NEED TO DO NOW IS BRING TOGETHER THE SUGGESTIONS WE HAVE INTO A
> [...]

Sigh...

[note news.groups deleted 'cos I'm sure they're sick of notes like this].

--

andyw. N0REN/G1XRL

andyw@aspen.cray.com Andy Warner, Cray Research, Inc. (612) 683-5835

Date: 1 Apr 93 20:29:11 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!zaphod.mps.ohio-state.edu!
darwin.sura.net!sgiblab!pacbell.com!amdahl!amdahl!jgt10@network.UCSD.EDU
Subject: RFD: rec.radio.amateur reorganization [discussion summary 3/31]
To: packet-radio@ucsd.edu

ikluft@uts.amdahl.com (Ian Kluft) writes:

[... status and stuff deleted ...]

>Let the discussion continue... I'll try to put together a picture of what
>looks like it can pass a vote as people say what they can support.

>For reference - recap of RFD proposals

>-----

>Summary of RFD proposed newsgroups (Option I)

>-----

>(all groups unmoderated)

>Newsgroup name	description
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>	[no modification to existing newsgroup]
>rec.radio.amateur.digital.misc	packet radio & other digital modes
>	[includes old rec.radio.amateur.packet]
>rec.radio.amateur.digital.tcp-ip	TCP/IP via packet radio
>rec.radio.amateur.operating	Operating procedures and questions: DX,
>	CW, contests, propagation, repeaters
>rec.radio.amateur.products	manufactured equipment, modifications
>rec.radio.amateur.instruction	Ham radio instruction & examination
>rec.radio.amateur.construction	homebrewing & experimentation
>rec.radio.amateur.space	amateur radio in space: satellites,
>	earth-moon-earth (EME), shuttle, MIR
>rec.radio.amateur.emerg-services	emergency services: RACES, ARES, NTS

I feel the above breakdown is too fine.

>Summary of RFD proposed newsgroups (Option II - "the .tech option")

>-----

>(all groups unmoderated)

>Newsgroup name	description
>-----	-----
[...]	
>rec.radio.amateur.operating	Operating procedures and questions: DX,
>	CW, contests, propagation, repeaters
>rec.radio.amateur.emerg-services	emergency services: RACES, ARES, NTS
>rec.radio.amateur.tech	Technical discussions about Ham Radio:
>	construction, satellites, theory,
>	examinations, video

I like the above breakdown. Although I wonder if there might be some cross over on the examination issues (as there might be on a lot of things for that matter).

And for that matter (just for good measure) add a

rec.radio.amateur.flame

Since we have issue that count as flame wars by any definition I've seen, let acknowledge them and send them to their own perigatory.
(maybe that should be rec.radio.amateur.static or rec.radio.static :)

A side issue that may help the implementation of a news group reorg. Part of the problem may be lack of knowledge of the definition of the groups. I would suggest a weekly 'reminder' of the group definitions.

--

John G. Thompson	Amdahl Corporation	jgt10@uts.amdahl.com
KD6KID	P.O. Box 3470 MS 340	{sun,uunet}!amdahl!jgt10
	Sunnyvale, CA 94088	1-408-737-5708

Go ahead, flame me...I've got heavy duty surge protectors.

[The opinions expressed above are mine, solely, and do not]
[necessarily reflect the opinions or policies of Amdahl Corp.]

Date: 2 Apr 93 06:06:54 GMT

From: rtech!amdahl!amdahl!ikluft@decwrl.dec.com

Subject: RFD: rec.radio.amateur reorganization [discussion summary 3/31]

To: packet-radio@ucsd.edu

andyw@aspen32.cray.com (Andy Warner) writes:

>In article <efB803hDceof00@amdahl.uts.amdahl.com>, ikluft@uts.amdahl.com (Ian Klufft) writes:

>> Tally so far: 13 in favor, 7 opposed, 8 unclear or undecided

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>> or may not be conditional. So this number represents 13 in favor of a split
>> but not necessarily for the exact proposal in the RFD.

>So, what you're saying is that a grand total of 28 people have expressed
>an opinion and less than half of those were obviously for it ?

Yes. When you ask people to do something out of the ordinary (like go all the way to news.groups and post something), don't expect everyone to jump to it. It just wouldn't be realistic. So the fact that those in favor

